Jie Bao in

Personal Information

ADDRESS:	Montreal, Quebec, Canada
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Computer Skills

PYTHON, C++, TERRAFORM, PYTORCH, AZURE, DATABRICKS, SQLAlchemy, GIT, LaTeX

Education

CURRENT	**Mila - Université de Montréal**, Montreal, Quebec, Canada COMPUTER SCIENCE MASTER STUDENT (PART-TIME) *Focus on NLP and Computer Graphics*
2015 - 2021	**Concordia University**, Montreal, Quebec, Canada Thesis: Deep Learning for Turbulence Modeling *Master of Applied Science*, GPA: 4.0/4.3 *Bachelor of Engineering, Aerospace Engineering* Applied Machine Learning - COMP551 (McGill Campus IUT), *Grade: A*

Work Experience

2022- CURRENT	**Data Engineering Specialist**, CAE Building internal Data Plateform - CAE Data Catalog: Implemented data quality and observability backend. Design data pipelines using event-driven autoscaling, and Spark. Addressed data inconsistencies by automatically informing data producers on best action items. API skills creation for chatbot service. Stack: K8s, KEDA, FastAPI, PostgreSQL, Docker, QA bot with Semantic Kernal.
2021	**Flightlink Engineer**, AIRBUS, *A220 - Skywise* Data analytics for predictive maintenance using Python(Tensorflow). Build analytical dashboards on A220 fleet performance metrics. Such as fleet availability statistics for other engineering groups.
2019-2021	**Graduate Student Researcher**, COMPUTATIONAL AEROSPACE LAB *Turbulence Modeling Technique using Machine Learning Techniques* Performed feature quality analysis using algorithm such as Relief. Data cleaning, acquisition and analysis using Matlab and Python. Created an end-to-end ML training pipeline for turbulent production and dissipation values. Achieved over 90% R^2 accuracy. Currently, working on analysing the NACA 0012 airfoil. Check out the progress on website and my other works.

Languages

FRENCH:, ENGLISH:, CHINESE (MANDARIN):   Fluent

Interests and Activities

Skateboarding, Snowboard, and River Surfing.